

selectively actuates a first array of four valves providing machine control much the same as prior art joy stick pressure controllers. However my invention has connected to the lever a second cam actuator and two more arrays of four valves oriented parallel to and circular about the lever, and near the second cam actuator. Valves of the first parallel array actuate when the lever is pulled axially. Valves of the second parallel array actuate when the lever is pushed axially. As can be understood, the invention fluidic controller can operate more functions (has broader utility) when plumbed to machinery then do prior art pressure joy stick controllers: The invention lever operator can be tilted to control some machinery functions, and can be pulled to control other machinery functions, and can be pushed to control still other machinery functions.”

Paragraph 4 of page 2 is replaced by new paragraph:

--My invention discloses a pressure selector joy stick type mechanism including a tiltable lever operator which includes axial motion (push and pull movement) as well. The lever tilting motion selectively actuates a first array of four valves providing machine control. My invention has connected to the lever a second actuator and two more arrays of four valves oriented circular about the lever, and near the second actuator. Valves of the second array actuate when the lever is pulled axially. Valves of the third array actuate when the lever is pushed axially. As can be understood, the invention fluidic controller can operate many functions (has broad utility) when plumbed to machinery: The invention lever operator can be tilted to control some machinery functions, and can be pulled to control other machinery functions, and can be pushed to control still other machinery functions.--

The paragraph of page 3 line 1 words “are limited to tilted only control” is changed to --are sometimes limited to tilted axis only control--

The paragraph of page 4 line 4 words “attached radial valves” is changed to -- attached a first set of four valves--

The paragraph of page 4 line 4 words “attached four” is changed to --attached a second set of four --

The paragraph of page 4 lines (4 to 7) words

“23a, 23b, 23c, 23d facing longitudinally in one direction. The housing 10 includes a final four bores through which are attached four final valves (three shown) 20a, 20b, 20c, 20d facing in the opposite longitudinal direction”

is changed to

--23a, 23b, 23c, 23d. The housing 10 includes a final four bores through which are attached a third set of four final valves (three shown) 20a, 20b, 20c, 20d--

The paragraph of page 6 lines 25, 26 words

“This shape easily allows for the drilling of four radial mounting holes to attach each of the four radial valves”

is changed to

-- This shape easily allows for the drilling of four mounting holes to attach each of the four valves --

The paragraph of page 6 lines 26, 27 words “the radial valves” is changed to --the valves --

The paragraph of page 6 line 31 words “The radial mounting” is changed to --The mounting --

The paragraph of page 7 line 6 words “provides an axial cavity” is changed to --provides a cavity --

The paragraph of page 7 line 22 words “is usually low and” is changed to --is nominal and --

Paragraph 5 of pages 11, 12 is deleted and sequential paragraph 1 of page 12 is deleted

“9. Alternate Embodiment—Alternate Valve Quantities (not shown)

~~All the drawings of the previous embodiments showed designs which include arrays of four valves. There is no reason why the three valve arrays can't include other quantities of valves such as one, two, three, eight, etc. For example, if only the equipment 24 pitch control is desired (with no roll control); then the first array of radial valves would only need the valves 18a and 18b. As another example, if the equipment 24 to be roll, pitch and elevation controlled is~~

~~supported upon air cylinders which include pilot actuated pressure dump valves, then the assembly 25 would need only the one valve 20a in the bottom (third array) as the valve 20a could be the pilot valve capable of dumping all four air cylinders thus lowering the equipment 24.~~

~~9. Alternate Embodiment—Alternate Two Valve Arrays Instead of Three Valve Arrays (not shown).~~

~~All the previous assembly 25 configurations used three valve arrays (first radial set operated by the lever 15 tilting, the second axial set operated by the lever 15 pulling, and the third axial set operated by the lever 15 pushing). However, the third valve 20a, 20b, 20e, 20d array could be unnecessary if the second array of valves 23a, 23b, 23e, 23d used three position valves instead of two position. When using three position valves, as the lever 15 is pushed, all the three position valves 23a, 23b, 23e, 23d could shift to a position to exhaust all the air bags 27a, 27b, 27e, 27d of FIG. 5 thus lowering the equipment 24. Using three position valves, as the lever 15 is pulled, all the three position valves 23a, 23b, 23e, 23d could shift to a position to fill all the air bags 27a, 27b, 27e, 27d of FIG. 5 thus raising the equipment 24. As can be seen, if array of the valves 23a, 23b, 23e, 23d can control raising and lowering of the equipment 24, then the third valve array 20a, 20b, 20e, 20d can be eliminated.”~~

The paragraph of page 12 lines 18, 19 words

“other radial valves types, other multiple axial valve types and arrangements activated by a lever operator as”

is changed to

-- other valve types arranged in other positioning configurations activated by other configurations of lever operators as –

2. THE FOLLOWING CHANGES ARE SPECIFICATION ERROR CHANGE CORRECTIONS NOTICED BY EXAMINER:

The paragraph of page 3 line 4 words

“My invention has an advantages of”